

Monitoring Times 1998 INDEX

FEATURES:

Broadcast:

China Radio International	Sep
Inside Italy's RAI	Nov
Logging FM DX	Aug
Mountain Voice (TIS)	Aug
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Radio Difusora de Pagos de Caldas	Dec
Tropical Band DXing	Dec
WYFR Story	Oct
Zambia's Christian Voice	Sep

Human Interest:

Excellent DX Adventure	Aug
Jamming Wall	Nov
Real World Radio	Jan

Miscellaneous:

1997 MT Index	Jan
1998 International CES	Mar
ACE Solar Storm Alert	Feb
Apartment Monitoring	Nov
Art of Professional Dispatching	Jan
Car DXing	Apr
CIA vs. Saddam Radio War	May
Cryptography	Oct
Cypress Gardens Radio Museum	Aug
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Future According to COMDEX	Feb
Ham Radio for Boaters	Jun
Now it can be told (Greek Is)	Oct
Take a SW DXpedition	Sep
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Digital Alternatives in Satellite TV	Dec
Inmarsats and How to Hear Them	Nov

Scanning:

Baltimore-Wash Intl Airport	May
Blue Angels	May
Close Encounter w/a Twister	Jul
Counter Intelligence	Mar
Identifying Trunked Radio Systems	Dec
Marine Monitoring on Chesapeake	Jun
Mother, Jugs, and Speed?	Jul
Trunking Profile for Atlanta	Jan
VORTAC Goes the Distance	May

Technology and Technical:

AM Transmitter Site	Apr
Antennas for Emergency Ops	Jul
Canada's Billion Dollar Boat	Jun
Dealing w/Strong Signals (tuners)	Apr
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Magnetic Loop Antennas for AM	Aug
Quickie, Snap-on Tower Bracket	Apr
Restoring that old AM Radio	Aug
Safe SHOALS	Mar
Simple Battery Discharger	Mar
Splitting a Signal	Mar
The Ten-Tec Receiver Kit (1254)	Jan
Turntable for Loops	Sep
Use Your Mobile Scanner Antenna	Apr
Varicap Tuned Receiving Loops	Feb
	Apr

Utilities:

The Happy Hobbyist (HF scan)	Sep
Monitoring FEMA	Jul
Unlocking the Mysteries of SW	Oct

AMERICAN BANDSCAN

JAN	A Cool Beverage (antenna); sporadic-e; Kiwa pocket regen module
FEB	What happened to the 10-watters? Expanded band news
MAR	Digital BCing in Canada; expanded band news
APR	Ice vs Towers; call letter changes
MAY	Skip Time; Expanded Band News
JUN	Legal Pirates?
JUL	DX Safety (lightning etc); unidirectional antenna?; record-breaking tropo reception
AUG	New AM Targets; expanded-band news
SEP	DX Predictions (propagation); expanded band notes; Chicago megatower
OCT	'The Expanded Band Times'; Australia & UK BC databases on line, AM stereo page, Denver news
NOV	Beverage Questions; Bits and Pieces from Canada
DEC	¿Hablo Español? (IDing Spanish language stations)

...AND MORE!

JAN	Family Radio Service—the next CB?
FEB	How to be a hometown hero (Ch 9 emergency monitoring)
MAR	Helping Traffic w/GMRS
APR	Maxon Sp-100G GMRS HT
MAY	Cherokee's Terrific FR-465
JUN	Icom's VHF Marine Transceiver
JUL	Cherokee CB SSB AH-100
AUG	Icom's Potent IC-4008A FRS
SEP	Motorola's TalkAbout(FRS
OCT	Kenwood's Easy to use FreeTalk (FRS freqs)
NOV	Radio Shack's Easy FRS Radios
DEC	Oregon Scientific & Midland weather receivers

ANTENNA TOPICS

JAN	Antenna faults and how to find them
FEB	Antenna Faults, part two
MAR	Is Your Antenna Resonant?
APR	Building Vertical Antennas
MAY	You Need dB Aware of Decibels
JUN	What's Wrong with my Dipole?
JUL	TDR on a Budget
AUG	Design Your Own Field Day
SEP	The Right Antenna for the Frequency
OCT	Some Hard to Spy Antennas
NOV	Why all the noise about noise?
DEC	Christmas Tree Antennas

BEGINNER'S CORNER

JAN	Scanning beyond the ordinary (scouting out new freqs)
FEB	Reviewing the Basics (good communications skills)
MAR	QSLing "the Blanks"
APR	Get w/the Amateur Program (books)
MAY	Air Show Fun
JUN	Marine Radio Connections (collecting)
JUL	Mobile Emergency Preparedness
AUG	Summertime Mediumwave Fun
SEP	Planning for SW Season
OCT	"Spooky" Radio Listening (bandscan for the unusual)
NOV	Understanding Radio Waves
DEC	Listening Tips for the Beginner

BELOW 500 kHz

JAN	Lowfer Update
FEB	Away from Home (DXing), Euro Guide; Low power in Canada
MAR	Pirate Beacons; 73 kHz resources
APR	1912 Remembered (Titanic)
MAY	Hams on Longwave?
JUN	Make Your Own Signals (lowfer transmitter circuit)
JUL	Closer to Getting on the Air (part 2)
AUG	Getting on the Air (part 3)
SEP	LF Exp Source Book; more on the Titanic
OCT	Better Beginnings (converters and how to use, listening targets and directories)
NOV	Tips from Readers: Euro LF, LZ wire, LF loading coils
DEC	Review of <i>Radioscience Observing</i>

BOB'S TIP OF THE MONTH

JAN	Ultrasonic pest controls
FEB	Emergency Power Supply
MAR	Changing ATS-909 Memory Presets
APR	Preparing Those Trade-ins; More on touch lamp RFI; UPS voltages
MAY	Digital Displays for Analog Radios
JUN	Using the Select-A-Tenna
JUL	Listening to Your Remote Control
AUG	How to record from a radio
SEP	Quiteting theGrove SP-200 Click
OCT	Listen and See your Infrared control
NOV	The "Power Tip" Scam
DEC	Using Grove FCC Database with Windows 98

CLOSING COMMENTS

JAN	Internet Changes Face of Politics
FEB	Thanks Larry; Welcome Hugh!
MAR	Internuts
APR	Whatever Happened to Hydranics?
MAY	Taking Credit Where Credit Isn't Due
JUN	Bits and Pieces
JUL	Storm tracking could save your life
AUG	FCC Proposes More Protective Rules
SEP	Media Muddles
OCT	Legislators above the Law?
NOV	The Frequency List and the Grain of Salt (guest editorial)___

COMPUTERS & RADIO

JAN	RecAlling a month I'd rather forget
FEB	Icom PCR1000
MAR	Icom PCR1000 (part 2)
APR	WINRADIO 1000i vs IC-PCR1000
MAY	WINRADIO Digital Suite
JUN	C&R Goes to Paris
JUL	Fixing Win95 Problems (First Aid 97, and Nuts&Bolts)
AUG	Cyberlock Data Encryption Program; Pentium prices falling
SEP	Casio's Hand PC and Windows CE
OCT	First look at WINRADIO's WR1500e
NOV	WinRadio WR1500e; AirData Mouse
DEC	Ten-Tec's under \$300DSP SW receiver

DIGITAL DIGEST

JAN	How to forecast propagation conditions
MAR	SITOR-A Maritime Mode
APR	SITOR-B
MAY	The First Digital Mode - RTTY
JUN	HF Facsimile
JUL	Decoding 3rd Shift Cyrillic
AUG	Third Shift Cyrillic - part II
SEP	Addressing ACARS
OCT	Who Uses the Digital Modes?
NOV	Digital Equipment Overview
DEC	Digital Reflections

EXPERIMENTER'S WORKSHOP

JAN	Upgrading WINRADIO: Selectivity
FEB	Computer Programming the PRO-64
MAR	WINRADIO secret files unveiled
APR	Handheld Scanner Backlight Mods
MAY	Revisiting the Homebrew Computer
JUN	Network Your Computers
JUL	Digital Data Interface Revisited
AUG	Data Decoding and Serial Ports
SEP	Update on Computer Networking
OCT	Automatic NiCd Cell Discharger
NOV	Automatic NiCd Cell Recharger
DEC	All-Purpose Op-Amps

FEDERAL FILE

JAN	WH learning to encrypt; midwest freqs—postal inspector system, Dept of Energy; FBI
FEB	High seas counternarcotic activities; US Joint Task Force Drug Interdiction; Itinerants; Agency sharing; auction snafu
MAR	Nexel forces digital switch; fed using trunked systems; results using the Opto Scout
APR	Smoky Mt Monitoring, TVA, Ft Campbell; militay trunking; FEMA aux ops; DEA freq; FBI D bank, and HF freqs; Customs
MAY	Data Freqs in the Fed Bands; More shared freqs; Natl Interagency Fire center; Freqs from Readers

JUN NTIA and other info from internet; Presidential trips; scanning in Idaho, Houston, Was DC, etc; more freqs from surplus gov radios
 JUL Executive Branch Travels; “Big Hole” Chatham NC; Black Mt CA antenna site; Nextel iDEN system
 AUG Washington goes trunked; Miami news; more treasures from trash; notes from Motorola tour, Facinator radios
 OCT FBI to Obtain New Radio System; Dept of Justice and FBI systems; DEA; TVA
 DEC Who Controls Government Frequencies?; 162 MHz band assignments

GLOBAL FORUM

JAN A Good Time for Shortwave
 FEB FCC accepts Weiner application
 MAR Why Women Don’t Like DXing
 APR More Catholic Than the Pope?
 MAY BBC Commits to Digital SW
 JUN Hunt Harmonics with Hauser
 JUL Milton Keynes new WRTH HQ
 AUG Nigerian Clandestines Proliferate
 SEP The Problem with Digital SW
 OCT Two Views on Clean Signals
 NOV WBCQ - An Alternative SW Station
 DEC Norway Cancels English Service

K.I.S. RADIO

MAR Computers in the Radio Shack
 MAY The Station Engineering Manual
 JUL Survival Communications
 SEP A Simple Antenna for Shortwave
 NOV Heathkit GR-64 Restoration

LAUNCHING PAD

NOV Learning to Love Satellites
 DEC Tuning in SW via Satellite

MAGNE TESTS

(Reprints of Magne Tests reviews are not available.)

JAN Sony SW-12/ Sony AN-LP1
 FEB Lowe HF-250E
 MAR International R-110; Improve Lowe SRX-100 selectivity
 APR InterNtional WR-689
 MAY Drake R8B - Part I
 JUN Drake R8B - Part II
 JUL Grundig Yacht Boy 400PE
 AUG First look at JRC NRD-545
 SEP AOR’s AR5000 + 3 Receiver
 OCT Sangean ATS404 Economy Portable
 NOV Kneisner + Doering KWZ30
 DEC (no column this month)

MILCOM

SEP Welcome to Military Monitoring; Where do you hear the military?
 NOV Atlantic City USCG Station Opens; Navy fleet tac channel; USN on Inmarsat + callsigns

ON THE HAM BANDS

JAN Yagi vs. Quad
 FEB Books to build your antenna by; NZ Beacon
 MAR Sobering ham numbers; use the media; 6m AM
 APR More Ham Software (QST View, HamCalc)
 MAY Making the Case for Novice
 JUN Classic Gear; Icom IC-T8A
 JUL Contesting 101
 AUG Using a Transmatch; 10 meter AM
 SEP Cherokee 6 Meter Handheld Milestone Technologies Spanish key
 OCT Kenwood VC-H1 SSTV Unit
 NOV Ham’s Christmas Wish List
 DEC More Good Stuff! (*Easy Wire Antennas*, Vectronics kits, Nye Master Hand Key, RS stores)

OUTER LIMITS

JAN R Free Berkeley wins another round; Europirate season; interval signals; SRI txmitter closing
 FEB CID moves to WRMI; Jorge Mas Canosa; WGTG on 695.5?; SMR maildrop
 MAR Three sources for pirate logs; Radio San Marino; NA Pirates
 APR How to Hear a Clandestine; NAB vs pirates; pirate freqs; SRS contest

MAY Micropirate Growth Creates Controversy; SW Pirate Freqs; New Pirate Web Sites, maildrops
 JUN FM busts, thousands still active; pirate web sites; SW pirate activity; Mid-America conference?
 JUL New clandestine internet news service; Radio 510 offers relays; FM pirate protest; SW pirates active
 AUG Nigerian turmoil spawns clandestines; SW pirate activity
 SEP ODXA expands; R Free Berkeley; SW Relay Service
 OCT WREC Retires; Millenium R.; Pirate CD; Free Radio Survey
 NOV WBCQ: Pirate goes legit; FM Pirate Busts; Europirates
 DEC Voice of the Pig’s Ear; Clanny web sites; QSL sources; Europirate skeds

PCS FRONT LINE

JAN PCS Takes Shape in 1998
 FEB The flap over digital decoding (Title III, Walz case), types of digital encoding
 APR Marketing Strategies (SM cards); 911 on cellular
 JUN Wireless Networks Taking Shape (AMSC, ARDIS, Iridium) LMDS auction
 AUG Pinpointing a Cellular Caller
 OCT Cellular Cryptography
 DEC Consumer Choices in the Cellular Market

PLANE TALK

JAN Aero Terminology; Philly and Pittsburgh freqs; new magazine
 FEB QSLing the Airlines
 MAR QSLing a moving target
 APR Tools of the Tower
 MAY Tools of the Trade: Radar
 JUN ATC Center Equipment
 JUL Flight Service Stations
 AUG Clearing the Way
 SEP Curious about the Concorde?; airline callsigns; sample flight plan
 OCT Coming to Terms with Radar
 NOV Radar - Part II
 DEC Aero Freq-for-all (Indpls, Pitts; AF- MWARAs); aero callsign (final in series)

PROGRAMMING SPOTLIGHT

FEB Give us 30 Minutes, we’ll give you...
 MAR The Environment
 APR Eavesdropping on Africa
 MAY Eavesdropping on Africa - II
 JUN Play Ball !
 JUL Which Way VOA?
 AUG End of the Year Review
 SEP Make a Resolution to Write
 OCT SW as a Learning Experience
 NOV Tracking the Global Economy
 DEC Holiday programming

PROPAGATION CONDITIONS

JAN Diversity Reception
 FEB NVIS Propagation in NA (part 1)
 MAR NVIS Propagation in NA (part 2)
 APR HF Propagation Beacons
 MAY Carrier Current Broadcasting
 JUN Cheap Electricity with LF
 JUL Snow Static!
 AUG On the Coattails of Meteors
 SEP Make this page work for you
 OCT Ionospheric Modification
 NOV Where to Listen on the Bands
 DEC How to Spot Santa Claus (OTHR)

QSL REPORT

JAN QSLing the X-band
 FEB DXing the Bottom of the World
 MAR Out of this World QSL (Mir)
 APR AltaVista translation service
 MAY Transmitter Documentation Project
 JUN DXing the Underground
 JUL QSLing in TV Land
 AUG Where in the World Is...(M-street)
 SEP China Radio Intl, R Christian Voice, R Finland, AWR
 OCT An unbeatable DX Season
 NOV Adventist World Radio; DSCI Tropical Band Survey
 DEC _Alaska Calling (KNLS)

SATELLITE TV

JAN Panamsat 5 Flies
 FEB China Central Television (final)

SCANNER EQUIPMENT

JAN Test Equipment Bargains
 FEB More Innovative Patents
 MAR REUM MS-200
 APR RCA RP-6150 Scantrak; Uniden BC235XLT glitch?
 MAY RS PRO-2050 Trunk Tracker
 JUN Opto DC442 Decoder
 JUL Coax Strub; PAR Electronics filters
 AUG Sony ICF-SC1PC WaveHawk scanner
 SEP Orange Book of Scanner Repair; finding service manuals; tone generating test equipment; monitoring ACSB
 OCT AOR AR8200 scanner
 NOV Alinco DJ-X10T
 DEC RS PRO-91 Trunking Portable

SCANNING REPORT

JAN Transformation of HR2369
 FEB Police Call announcement; storm watch drills; Winston-Salem codes; Beaufort Co, SC, trunking profile
 MAR Little-used scanner features; calming scanner fears; using VHF beam antenna; CES overview
 APR We We Do What We Do; Regina trunking; TrunkTracker tips; programming tips
 MAY The New Band in Town (pub safety); HR 2369 passes House
 JUN Incident Scanning(with Trunk-Tracker); Summertime Scanning; Sony scanner; reader letter
 JUL Twister Search ‘98
 AUG Tornado Chasing a Scanning Utopia; Rubber Duckies
 SEP The Digital Invasion; Logic trunking; Oklahoma City trunking; NYC trunked system
 OCT Random thoughts on scanning; new FCC service codes
 NOV The New Band to Scan; Florida fire comms and Fla. trunking
 DEC Statewide Systems; Massachusetts Agencies

UTILITY WORLD

JAN Flash Comm HF System; GHFS digital tones
 FEB Wonderful World of Utilities (overview and good-bye)
 MAR Sea Change in Maritime Mobile Service (CW to GMDSS)
 APR Does anybody know the time? (WWV and WWVH)
 MAY We’ve Got Your Numbers; Mossad loggings
 JUN Unraveling NATO Identifiers
 JUL Hurricane Frequencies
 AUG US Stratcom Zulu Update; DEA Joint Task Force
 SEP US AF MacDill Signs Off; GHFS moves to Scope Command
 OCT Spook Radio (spy, clandestine, and number stations)
 NOV NCS: Swords into SHARES
 DEC Is there life in MARS?

VIEW FROM ABOVE

NOV Keeping an Eye on the Weather
 DEC Keeping up with the Latest (web sites, Operational WXsATS; INSAT, Hurricane Georges, America’s OSEI)

WASHINGTON WHISPERS

JAN New FCC commissioners; Internet Tax Freedom Act; FCC RF Safety guidelines; personalized call signs
 FEB FCC action against Fla Pirates; the state of microbroadcasting; FCC to move administrative offices
 MAR Vermont fights federal preemption of telecommunication tower restrictions; Senate and House bills to allow local enforcement of FCC regulations
 APR Consumers’ Top 10 Telecom Concerns
 MAY FCC agrees to examine “Microstations”: 2 petitions
 JUN FCC makes major revisions to Equipment Authorization Process; Universal Licensing System; GMRS deregulations; Congress pushes for earlier taxation of Internet
 JUL The FCC: Who they are and what they do
 AUG How to Participate in the FCC Process
 SEP Radio Free Berkeley Unplugged; Vanity license reduced
 OCT DES broken; spread spectrum to be open to hams; cell call location debate; APCO to resolve interference complaints re pub safety radio; FCC approved Sky Station; vehicle collision avoidance system gets 4mm ham freqs; Space Station in doubt
 NOV What’s Behind the Amateur Restructuring Proposal?

DEC FCC Restructuring; Compliance and Information Bureau; FCC move;
phone company charges; Motorola interattice radio bc via internet

WHAT'S NEW

Books:

Access to the Airwaves	May
ARRL Repeater Dir (Grove)	Oct
ARRL Repeater Dir (Grove)	Dec
Basic Radio	Aug
Communicators Handbook 2050	Dec
Communications Receivers (Grove)	Feb
Complete SWL Handbook (G)	Sep
Cruiser's Radio Guide (Grove)	Feb
Crystal Set Building (G)	Aug
Discover DXing	Apr
EEM Database	Mar
Emergency Survival Comms (Grove)	Feb
Ferrell's Confidential Freq List	Dec
Haruteq Scanner Bk for Qb, Atl Can	Dec
Hitler's Airwaves	Oct
Illegal Police Surveillance	Feb
IRCA Mexican Log	Mar
Jane's Military Communications	Oct
Klingenfuss G to Ute Stations (Gr)	Feb
Klingenfuss G to WW Wx Services	Dec
Klingenfuss Radio Data Code Manual	Dec
Klingenfuss SW Frequency Guide	Feb
Morse Code: Breaking the Barrier	May
NRC AM Radio Log	Feb
NRC Station Location Map Book	Mar
Palm Beach Co Freq Dir	Jun
Passport to Web Radio	Oct
Police Call 1998 (Grove)	Jan
Police Call, So California	Feb
Practical RF Design Manual	Jan
Radio Amateur's Sat Handbook (G)	Sep
Radioscience Observing	Jun
RF Exposure and You	Jul
Shortwave Receivers Past & Present	Jun
Simple, Low-Cost Electronic Projects	Dec
South Florida Trunking Guide	Jun
Trunked Radio Syatems (CA)	Oct
Voices in the Air	Nov
World Radio TV Handbook (Grove)	Feb
WW SW Listening Guide (RS)	Sep
XMIT_ID free software	Aug
Zenith Transistor Radios	Apr

Software, Videos, Services, etc.

AirMedia internet antenna	Mar
Antennas West closes/lives on	May
AOR US headquarters	Nov
BradsSoftware Morse Made Easy	Sep
Citizens Band Review	Aug
CONET Project SW numbers CD	Jan
Cyberlock (soft)	Oct
DataFile Frobe Ver. 4	Apr
Defense Reutilization Marketing Svce	Oct
ECONN Gen Merchandise cat	Jan
EddyWorks AR8000 Toolkit	Aug
EEB closed retail store	Mar
Future Scanning Radiomax soft	Jan
Get Anything on Anybody (newsltr)	Oct
GlobeEmail supports new radios	Jun
Grove FCC Database	Jul
HamCalc disk	Mar
Hi-Res Restoration videos	Aug
Hobby Broadcasting magazine	Jan
Hobby Broadcasting magazine	Aug
IPS propagation service	Jun
Klingenfuss CD-ROM	Feb
LP Comm Listening Post soft	Mar
Maptech Terrain Navigator	Nov
Mouser catalog on line or CD	Jun
Megatrends Handi-Log	Apr
Radio Manager 3.896 soft	Mar
Satellite Times becomes monthly	Feb
ScanCat 7.20 for 896 (Grove)	Mar
Sescom web site	Mar

Serial control cable for 896 (Grove)	Mar
SETIQuest closed publication	Nov
Smolinski SS website (Mac soft)	Aug
Space: A Visual History (CD)	Dec
Transmitter Documentation website	Jan
Transmitter Documentation project	Sep
Trunk Manager soft	Mar
VisualRadio soft	May
WinRADIO Digital Suite (Grove)	Mar

Equipment:

Agrelo RDF system (Grove)	Aug
Alpha Delta hydraulic fold-over mount	Sep
American Tech Corp solar-powered radios & flashlight	Jul
ATC FM Sounds miniature radios	Aug
ATC Calculator Clock Radio	Nov
AOR AR-8200 (Grove)	Jul
Cutting Edge Ent power supplies	Jul
Cutting Edge Radio Glove	Nov
Davis Wireless Weather Station	Nov
Everhardt Trucker's Wx antenna	Dec
Firestik Trunk antenna mounts	Apr
Grundig Mini World 100	Sep
Garmin GPS receivers (Grove)	Jun
Icom IC-746 Transceiver	Nov
Innovative Technology RV/marine surge protectors	Jun
Jade Optically Coupled Regen rcvr	Sep
Kiwa Regeneration Module (Gr)	Apr
Kiwa Earth Monitor	Aug
Magellan GSC100 (Grove)	Apr
Magellan GPS ColorTRAK (Grove)	Oct
MFJ-310HT window mount clip	Apr
MFJ-969 AirCore tuner	Apr
MFJ-152 Thermometer Clock	May
Mirage Docking Booster	Jul
MTS Emergency Alert Radio	Dec
Nil-Jon VHF/UHF antennas	Aug
Optoelectronics OptoCom	Jul
Palstar R30 HF receiver	Sep
Panasonic GigaRange phones	Aug
RaceTrac headphones (Grove)	Oct
Radio Shack PRO-74 race scanner	Aug
Radio Works T-4G line isolator	May
RELUM MS-180, MS-200 (Grove)	Jan
Replay TV	Dec
SETI Wow! p;aque	Nov
SGC-231 automatic ant tuner	Apr
SGC SG-2020 transceiver	Jun
SkyScan Lightning Detector	Jul
Sony 7600G upgrade (Grove)	Mar
Sony AN-LP1 antenna (Grove)	Mar
Sony SAS-AD4 DSS system	Dec
Sony SC1 scanners (Grove)	May
Ten-Tec PC Radio	Sep
Trifield Broadband meter (Grove)	Dec
Trifield MicroAlert (Grove)	Nov
Uniden HH995 (Grove)	Jun
Vecronics kits	Nov
Weather Alert Monitor (Grove)	Jul
WinRADIO WR1500 and external units (Grove)	Jul
WR3000i & MS8002-6 rcvrs (Grove)	Oct
WR3E VLF rcvr (Grove)	Jan

Reviews:

BayGen Freeplay 1 & 2 radios	Jul
Creative Express Corp Ergo 3 soft	Mar
Icom IC-T8A Tri-band Transceiver	Aug
Future Scanning Sys Radio Max	Oct
Kiwa Earth Monitor	Nov
MFJ Gian Display Calendar Clock	Sep
MFJ-418 Morse Tutor	May
Opto MicroCounter	Jan
Opto RF Detector	May
Opto Trakker	Jun
Palomar Loop Antenna System	Apr